



California State Fire Marshal
National Fire Incident Reporting System

Data as of: 03/20/2007 11:48:50AM

FDID Range:
0 to No Upper Bound

Incident Date Range:
01/01/2003 to 12/31/2006

Incident Type:
111 to 123

Detector Type:
0 to U

Type of Detection Systems and Power Supplies, 2003-2006

<u>Incident Year</u>	<u>Detector Type</u>	<u>Detector Power Supply</u>	<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
2003									
	Combination smoke - heat								
		Battery Only	23	\$196,600	\$48,350	0	0	0	0
		Hardwire Only	69	\$409,810	\$697,861	2	0	0	0
		Hardwire with battery	49	\$627,063	\$197,265	3	0	1	0
		Multiple detectors and power supplies	11	\$551,000	\$183,600	1	0	1	0
		Other	2	\$15,000	\$10,000	0	0	1	0
		Plug in with battery	1	\$0	\$0	0	0	0	0
		Unknown	7	\$500	\$0	0	0	0	0
		Subtotal	162	\$1,799,973	\$1,137,076	6	0	3	0
	Heat								
		Battery Only	4	\$12,200	\$1,300	0	0	0	0
		Hardwire Only	21	\$246,905	\$448,655	0	0	0	0
		Hardwire with battery	4	\$150,100	\$120,100	0	0	0	0
		Mechanical	1	\$1,000	\$5,000	0	0	0	0
		Plug in with battery	1	\$7,500	\$300	0	0	0	0
		Unknown	3	\$0	\$0	0	0	0	0
		Subtotal	34	\$417,705	\$575,355	0	0	0	0
	More than 1 type present								
		Battery Only	3	\$30,100	\$22,034	0	0	0	0
		Hardwire Only	15	\$123,400	\$89,000	0	0	0	0
		Hardwire with battery	15	\$116,500	\$104,100	1	0	0	0

Type of Detection Systems and Power Supplies, 2003-2006

<u>Incident Year</u>	<u>Detector Type</u>	<u>Detector Power Supply</u>	<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
		Multiple detectors and power supplies	22	\$164,500	\$15,645	0	0	0	0
		Unknown	6	\$3,000	\$100	3	0	0	0
		Subtotal	61	\$437,500	\$230,879	4	0	0	0
	Other								
		Battery Only	10	\$118,500	\$51,512	1	0	1	0
		Hardwire Only	7	\$55,005	\$45,000	1	0	0	0
		Hardwire with battery	3	\$61,500	\$20,500	0	0	0	0
		Multiple detectors and power supplies	1	\$0	\$0	0	0	0	0
		Other	7	\$2,000	\$1,000	0	0	0	0
		Plug in	2	\$1,000	\$1,000	0	0	1	0
		Plug in with battery	1	\$0	\$0	0	0	0	0
		Unknown	11	\$106,000	\$55,000	0	0	0	0
		Subtotal	42	\$344,005	\$174,012	2	0	2	0
	Smoke								
		Battery Only	1,212	\$23,492,737	\$9,099,774	21	0	53	11
		Hardwire Only	312	\$5,128,862	\$1,338,491	6	0	9	0
		Hardwire with battery	331	\$5,880,220	\$1,836,756	6	0	18	0
		Multiple detectors and power supplies	32	\$1,600,285	\$355,250	2	0	0	2
		Other	5	\$10	\$0	0	0	0	0
		Plug in	3	\$1,000	\$100	0	0	0	0
		Plug in with battery	28	\$615,300	\$61,100	0	0	3	1
		Unknown	164	\$1,877,629	\$462,834	2	0	4	3
		Subtotal	2,087	\$38,596,043	\$13,154,305	37	0	87	17
	Sprinkler, water flow detection								
		Hardwire Only	32	\$1,287,300	\$5,112,170	6	0	0	0
		Hardwire with battery	20	\$152,500	\$47,350	0	0	0	0
		Mechanical	6	\$1,000	\$15,000	0	0	0	0
		Multiple detectors and power supplies	9	\$24,000	\$16,500	0	0	0	0
		Plug in with battery	2	\$10,000	\$10,000	0	0	0	0
		Unknown	16	\$3,238,400	\$3,330,050	0	0	2	0

Type of Detection Systems and Power Supplies, 2003-2006

<u>Incident Year</u>	<u>Detector Type</u>	<u>Detector Power Supply</u>	<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
Subtotal			85	\$4,713,200	\$8,531,070	6	0	2	0
Undetermined									
	Battery Only		34	\$770,240	\$204,900	2	0	4	3
	Hardwire Only		19	\$45,500	\$35,400	1	0	1	0
	Hardwire with battery		17	\$678,500	\$242,000	1	0	0	0
	Multiple detectors and power supplies		3	\$0	\$0	0	0	0	0
	Other		1	\$7,500	\$8,000	0	0	0	0
	Plug in		1	\$550	\$0	0	0	0	0
	Plug in with battery		1	\$0	\$0	0	0	0	0
	Unknown		567	\$11,026,127	\$2,434,123	10	0	17	1
Subtotal			643	\$12,528,417	\$2,924,423	14	0	22	4
2003	Total		3,114	\$58,836,843	\$26,727,120	69	0	116	21
2004									
Combination smoke - heat									
	Battery Only		21	\$628,400	\$199,925	0	0	0	0
	Hardwire Only		52	\$1,155,105	\$454,100	0	0	2	0
	Hardwire with battery		51	\$1,310,720	\$251,560	0	0	0	0
	Mechanical		1	\$0	\$0	0	0	0	0
	Multiple detectors and power supplies		12	\$8,400	\$51,500	0	0	0	0
	Other		1	\$210,000	\$50,000	0	0	0	0
	Unknown		9	\$140,300	\$83,600	0	0	0	0
Subtotal			147	\$3,452,925	\$1,090,685	0	0	2	0
Heat									
	Battery Only		4	\$89,000	\$10,500	0	0	0	0
	Hardwire Only		42	\$860,301	\$768,697	0	0	1	0
	Hardwire with battery		6	\$201,500	\$78,550	0	0	0	0
	Mechanical		3	\$96,000	\$25,000	0	0	0	0
	Multiple detectors and power supplies		1	\$0	\$0	0	0	0	0
	Other		2	\$3,000	\$3,000	0	0	0	0

Type of Detection Systems and Power Supplies, 2003-2006

<u>Incident Year</u>	<u>Detector Type</u>	<u>Detector Power Supply</u>	<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
		Unknown	6	\$1,282,000	\$187,000	0	0	0	0
		Subtotal	64	\$2,531,801	\$1,072,747	0	0	1	0
	More than 1 type present								
		Hardwire Only	25	\$268,600	\$114,870	0	0	0	0
		Hardwire with battery	24	\$240,100	\$60,400	0	0	1	0
		Multiple detectors and power supplies	28	\$10,697,650	\$25,060,450	0	0	1	0
		Plug in	1	\$0	\$10,000	0	0	0	0
		Plug in with battery	1	\$0	\$0	0	0	0	0
		Unknown	14	\$250,500	\$112,000	1	0	2	0
		Subtotal	93	\$11,456,850	\$25,357,720	1	0	4	0
	Other								
		Battery Only	5	\$160,000	\$57,000	0	0	0	0
		Hardwire Only	4	\$80,000	\$40,500	0	0	0	0
		Hardwire with battery	5	\$79,600	\$26,500	0	0	0	0
		Other	7	\$9,500	\$800	0	0	0	0
		Plug in with battery	1	\$0	\$0	0	0	0	0
		Unknown	10	\$153,100	\$100,300	0	0	0	0
		Subtotal	32	\$482,200	\$225,100	0	0	0	0
	Smoke								
		Battery Only	1,672	\$34,120,016	\$11,558,166	21	0	68	10
		Hardwire Only	481	\$12,945,209	\$5,661,022	10	0	21	5
		Hardwire with battery	548	\$9,532,214	\$3,493,394	11	0	34	1
		Mechanical	2	\$0	\$0	0	0	0	0
		Multiple detectors and power supplies	40	\$1,217,200	\$531,110	1	0	1	0
		Other	5	\$235,000	\$416,000	0	0	0	0
		Plug in	5	\$20,600	\$500	0	0	0	0
		Plug in with battery	29	\$389,810	\$185,600	0	0	0	0
		Unknown	299	\$6,126,050	\$1,525,056	1	0	15	1
		Subtotal	3,081	\$64,586,099	\$23,370,848	44	0	139	17
	Sprinkler, water flow detection								

Type of Detection Systems and Power Supplies, 2003-2006

<u>Incident Year</u>	<u>Detector Type</u>	<u>Detector Power Supply</u>	<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
		Hardwire Only	34	\$1,487,100	\$598,701	1	0	1	0
		Hardwire with battery	20	\$55,950	\$68,000	0	0	1	0
		Mechanical	17	\$59,000	\$142,000	0	0	0	0
		Multiple detectors and power supplies	18	\$2,171,900	\$292,000	0	0	0	0
		Other	4	\$0	\$100,000	0	0	0	0
		Plug in	1	\$5,000	\$100,000	0	0	0	0
		Plug in with battery	2	\$150,000	\$200,000	0	0	0	0
		Unknown	15	\$260,600	\$467,000	0	0	0	0
		Subtotal	111	\$4,189,550	\$1,967,701	1	0	2	0
	Undetermined								
		Battery Only	57	\$1,904,300	\$730,425	0	0	10	0
		Hardwire Only	29	\$1,163,600	\$501,861	0	0	2	0
		Hardwire with battery	17	\$511,100	\$317,150	0	0	0	0
		Mechanical	1	\$2,000	\$500	0	0	0	0
		Multiple detectors and power supplies	3	\$12,500	\$2,300	0	0	0	0
		Other	3	\$11,010	\$1,000	0	0	0	0
		Plug in with battery	1	\$500	\$0	0	0	0	0
		Unknown	562	\$16,408,370	\$4,992,280	7	0	13	1
		Subtotal	673	\$20,013,380	\$6,545,516	7	0	25	1
	2004	Total	4,201	\$106,712,805	\$59,630,317	53	0	173	18
2005									
	Combination smoke - heat								
		Battery Only	30	\$7,530,800	\$212,300	0	0	0	0
		Hardwire Only	72	\$964,832	\$995,700	5	0	3	0
		Hardwire with battery	80	\$1,460,810	\$555,745	0	0	0	0
		Multiple detectors and power supplies	13	\$127,000	\$21,700	0	0	0	0
		Other	3	\$3,000	\$2,000	0	0	0	0
		Plug in	1	\$0	\$100	0	0	0	0
		Plug in with battery	2	\$15,000	\$2,500	0	0	0	0

Type of Detection Systems and Power Supplies, 2003-2006

<u>Incident Year</u>	<u>Detector Type</u>	<u>Detector Power Supply</u>	<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
		Unknown	19	\$126,071	\$44,085	0	0	0	0
		Subtotal	220	\$10,227,513	\$1,834,130	5	0	3	0
	Heat								
		Battery Only	6	\$22,000	\$25,000	0	0	0	0
		Hardwire Only	40	\$922,000	\$1,013,700	0	0	0	0
		Hardwire with battery	19	\$424,600	\$192,750	0	0	1	0
		Mechanical	2	\$25	\$2,500	0	0	0	0
		Multiple detectors and power supplies	2	\$5,000	\$0	0	0	0	0
		Other	1	\$0	\$0	0	0	0	0
		Plug in	3	\$0	\$0	0	0	0	0
		Plug in with battery	1	\$0	\$1,000	0	0	0	0
		Unknown	5	\$210,600	\$25,200	0	0	0	0
		Subtotal	79	\$1,584,225	\$1,260,150	0	0	1	0
	More than 1 type present								
		Battery Only	1	\$5,000	\$3,500	0	0	0	0
		Hardwire Only	29	\$317,550	\$3,195,935	0	0	0	0
		Hardwire with battery	38	\$86,650	\$136,500	0	0	0	0
		Mechanical	3	\$5,000	\$6,000	0	0	0	0
		Multiple detectors and power supplies	31	\$89,300	\$28,556	0	0	2	0
		Other	2	\$40,000	\$25,000	0	0	0	0
		Plug in	1	\$0	\$0	0	0	0	0
		Unknown	25	\$267,510	\$177,755	2	0	0	0
		Subtotal	130	\$811,010	\$3,573,246	2	0	2	0
	Other								
		Battery Only	11	\$41,000	\$16,700	0	0	0	1
		Hardwire Only	13	\$862,500	\$1,168,500	0	0	0	0
		Hardwire with battery	6	\$205,500	\$83,000	0	0	1	0
		Mechanical	1	\$0	\$0	0	0	0	0
		Multiple detectors and power supplies	1	\$0	\$0	0	0	0	0
		Other	3	\$201,000	\$50,200	0	0	0	0

Type of Detection Systems and Power Supplies, 2003-2006

<u>Incident Year</u>	<u>Detector Type</u>	<u>Detector Power Supply</u>	<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
		Unknown	7	\$780,900	\$210,101	0	0	0	0
		Subtotal	42	\$2,090,900	\$1,528,501	0	0	1	1
	Smoke								
		Battery Only	1,877	\$47,933,162	\$15,103,418	34	0	82	8
		Hardwire Only	710	\$15,584,495	\$5,902,131	8	0	38	5
		Hardwire with battery	724	\$19,612,447	\$5,747,980	12	0	39	3
		Mechanical	1	\$0	\$0	0	0	0	0
		Multiple detectors and power supplies	43	\$1,868,682	\$397,301	0	0	3	2
		Other	20	\$424,000	\$128,400	0	0	1	1
		Plug in	10	\$140,800	\$69,200	0	0	0	0
		Plug in with battery	30	\$450,300	\$216,660	0	0	1	0
		Unknown	422	\$25,094,185	\$10,283,173	7	0	30	1
		Subtotal	3,837	\$111,108,071	\$37,848,263	61	0	194	20
	Sprinkler, water flow detection								
		Battery Only	2	\$100,500	\$25,500	0	0	0	0
		Hardwire Only	61	\$297,700	\$278,795	2	0	6	0
		Hardwire with battery	32	\$592,250	\$1,054,351	0	0	1	0
		Mechanical	25	\$540,000	\$222,250	1	0	0	0
		Multiple detectors and power supplies	17	\$506,600	\$6,303,000	0	0	0	0
		Other	3	\$20,000	\$20,100	0	0	0	0
		Unknown	32	\$310,601	\$6,349,230	2	0	1	0
		Subtotal	172	\$2,367,651	\$14,253,226	5	0	8	0
	Undetermined								
		Battery Only	44	\$2,023,010	\$411,250	1	0	2	1
		Hardwire Only	49	\$486,350	\$628,170	2	0	8	1
		Hardwire with battery	33	\$314,250	\$152,250	0	0	1	0
		Multiple detectors and power supplies	8	\$631,200	\$111,050	0	0	0	0
		Other	6	\$17,500	\$12,100	0	0	0	0
		Plug in with battery	3	\$85,250	\$35,000	0	0	1	0
		Unknown	494	\$19,712,518	\$9,893,231	5	0	26	2

Type of Detection Systems and Power Supplies, 2003-2006

<u>Incident Year</u>	<u>Detector Type</u>	<u>Detector Power Supply</u>		<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
			Subtotal	637	\$23,270,078	\$11,243,051	8	0	38	4
			2005 Total	5,117	\$151,459,448	\$71,540,567	81	0	247	25
2006										
	Combination smoke - heat									
	Battery Only			16	\$1,337,700	\$399,500	0	0	1	0
	Hardwire Only			53	\$949,950	\$485,850	0	0	3	1
	Hardwire with battery			65	\$1,209,500	\$468,511	0	0	2	0
	Multiple detectors and power supplies			10	\$761,500	\$411,100	0	0	0	0
	Plug in with battery			2	\$2,000	\$1,000	0	0	0	0
	Unknown			12	\$268,501	\$58,003	0	0	0	0
			Subtotal	158	\$4,529,151	\$1,823,964	0	0	6	1
	Heat									
	Battery Only			7	\$15,600	\$16,701	0	0	0	0
	Hardwire Only			22	\$1,254,425	\$263,770	1	0	0	0
	Hardwire with battery			7	\$170,000	\$17,250	0	0	0	0
	Mechanical			2	\$15,500	\$0	0	0	0	0
	Multiple detectors and power supplies			1	\$0	\$0	0	0	0	0
	Other			3	\$30,350	\$5,100	0	0	0	0
	Unknown			7	\$160,500	\$41,500	0	0	0	0
			Subtotal	49	\$1,646,375	\$344,321	1	0	0	0
	More than 1 type present									
	Battery Only			3	\$11,000	\$2,450	0	0	0	0
	Hardwire Only			32	\$66,150	\$87,706	0	0	0	0
	Hardwire with battery			24	\$851,020	\$263,660	0	0	0	0
	Mechanical			1	\$5,000	\$5,000	0	0	0	0
	Multiple detectors and power supplies			27	\$682,700	\$2,323,749	0	0	0	0
	Unknown			14	\$921,851	\$537,501	0	0	0	0
			Subtotal	101	\$2,537,721	\$3,220,066	0	0	0	0
	Other									

Type of Detection Systems and Power Supplies, 2003-2006

<u>Incident Year</u>	<u>Detector Type</u>	<u>Detector Power Supply</u>	<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
		Battery Only	6	\$30,800	\$11,000	0	0	0	0
		Hardwire Only	14	\$311,110	\$70,100	0	0	0	0
		Hardwire with battery	8	\$76,310	\$43,010	0	0	0	0
		Other	1	\$20,000	\$5,000	0	0	1	0
		Plug in with battery	1	\$2,500	\$1,500	0	0	0	0
		Unknown	4	\$55,500	\$90,300	0	0	0	0
		Subtotal	34	\$496,220	\$220,910	0	0	1	0
	Smoke								
		Battery Only	1,243	\$33,955,402	\$9,736,978	23	0	58	11
		Hardwire Only	504	\$11,702,373	\$3,613,989	6	0	27	1
		Hardwire with battery	533	\$13,305,572	\$3,405,172	9	0	25	3
		Mechanical	1	\$500	\$50	0	0	0	0
		Multiple detectors and power supplies	31	\$1,270,501	\$134,800	1	0	0	0
		Other	11	\$607,501	\$28,500	0	0	0	0
		Plug in	6	\$80,200	\$10,000	0	0	0	0
		Plug in with battery	15	\$1,571,600	\$209,250	0	0	0	0
		Unknown	288	\$10,934,307	\$3,421,178	18	0	13	1
		Subtotal	2,632	\$73,427,956	\$20,559,917	57	0	123	16
	Sprinkler, water flow detection								
		Hardwire Only	40	\$102,034,850	\$600,350	0	0	2	0
		Hardwire with battery	22	\$317,200	\$608,150	0	0	0	0
		Mechanical	14	\$145,000	\$19,700	0	0	0	0
		Multiple detectors and power supplies	17	\$61,200	\$56,600	0	0	0	0
		Other	2	\$5,000	\$200	0	0	0	0
		Plug in	1	\$100,000	\$20,000	0	0	0	0
		Plug in with battery	1	\$0	\$0	0	0	0	0
		Unknown	15	\$37,050	\$65,200	0	0	1	0
		Subtotal	112	\$102,700,300	\$1,370,200	0	0	3	0
	Undetermined								
		Battery Only	42	\$2,893,200	\$1,312,850	4	0	2	0

Type of Detection Systems and Power Supplies, 2003-2006

<u>Incident Year</u>	<u>Detector Type</u>	<u>Detector Power Supply</u>	<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
		Hardwire Only	34	\$532,351	\$183,850	2	0	4	3
		Hardwire with battery	27	\$694,631	\$354,500	1	0	4	2
		Multiple detectors and power supplies	5	\$70,100	\$50,000	0	0	0	0
		Other	4	\$30,700	\$11,000	0	0	0	0
		Plug in	1	\$0	\$25	0	0	0	0
		Plug in with battery	2	\$1,000	\$800	0	0	0	0
		Unknown	270	\$10,397,105	\$3,155,536	7	0	18	5
		Subtotal	385	\$14,619,087	\$5,068,561	14	0	28	10
2006	Total		3,471	\$199,956,810	\$32,607,939	72	0	161	27
		Grand Total	15,903	\$516,965,906	\$190,505,943	275	0	697	91

The data contained in this report comes from the State Fire Marshal's California All Incident Reporting System (CAIRS) data warehouse. Property and contents loss figures, if included herein, are estimates only. These emergency incident statistics, including injury and death counts, are based only upon information submitted to the State Fire Marshal by participating California fire departments. Please note that apparent variations in incident counts and associated losses shown in this report may be solely due to fluctuations in the amount of data submitted to the State Fire Marshal. And while the incoming data is validated according to logical data rules, individual data elements are not always verified for accuracy.

Type of Detection Systems and Power Supplies, 2003-2006

Parameters:

FDID Range: 0 to No Upper Bound

Incident Date Range: 01/01/2003 to 12/31/2006

Incident Type: 111 to 123

Detector Type: 0 to U

Selection Criteria:

{INCIDENTKEY.FDID}={?FDIDrange} and
{INCIDENTKEY.IN_STATUS}='V' and
{INCIDENTKEY.IN_DATE}={?IncidentDateRange} and

{IN_BASIC.IN_TYPE}={?IncidentType} and
{FIRE_STRUCTURE.STR_DETECTTYPE}={?DetectorType}and
{FIRE_STRUCTURE.STR_DETECTPRESENCE}="1"